MASSACHUSETTES

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Gypsy Moth

(SPECIFIC NAME): Lymantria dispar

HOST: All oaks; aspens; gray, white, and river birches; willows, beech and hemlock.

PRESENT CONDITION:

AREA (TOTAL ACRES): 7,000 acres

LOCATION: Central and Western Mass.

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): 10-30% light to moderate

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

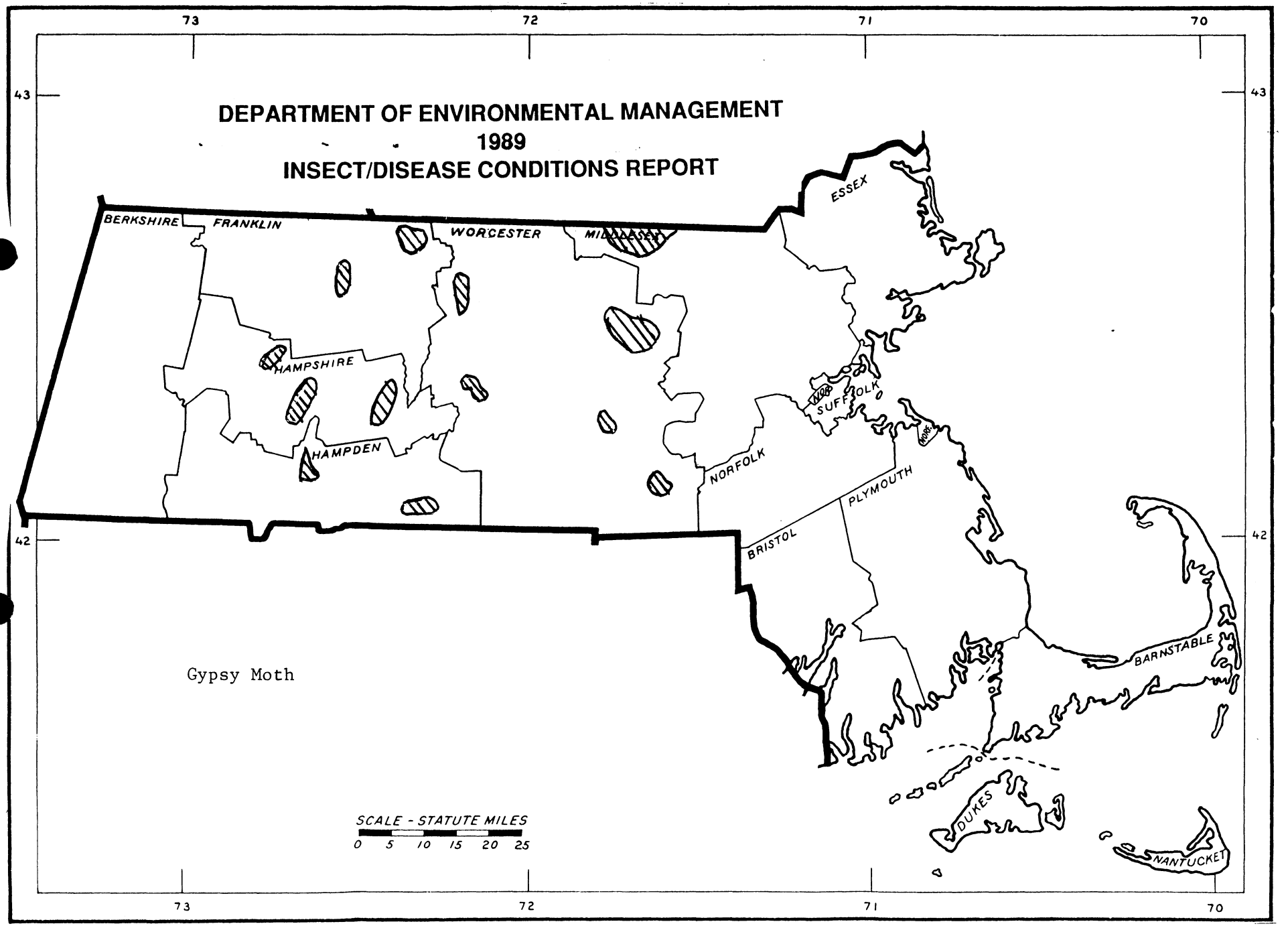
PAST TO PRESENT: Population is on the increase over the last three years but still light.

FUTURE: Population on the increased heavy defoliation expected in Spring of 1990 and 1991. Holyoke Range area in the Connecticut River Valley area shows approx. 500 egg masses to the acre.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None proposed currently.

COMMENTS: Future population trends depend on weather conditions and the Entomophaga Fungis ability to establish itself.

MASSACHUSETTS



1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Pear thrips

(SPECIFIC NAME): Taeniothrips inconsequens

HOST: Primarily Sugar maples

PRESENT CONDITION:

AREA (TOTAL ACRES): Approximately 2,000,000

LOCATION: Berkshire, Western Hampshire & Hampden, Franklin, and Northern Worcester County.

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): Light 0-10%

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

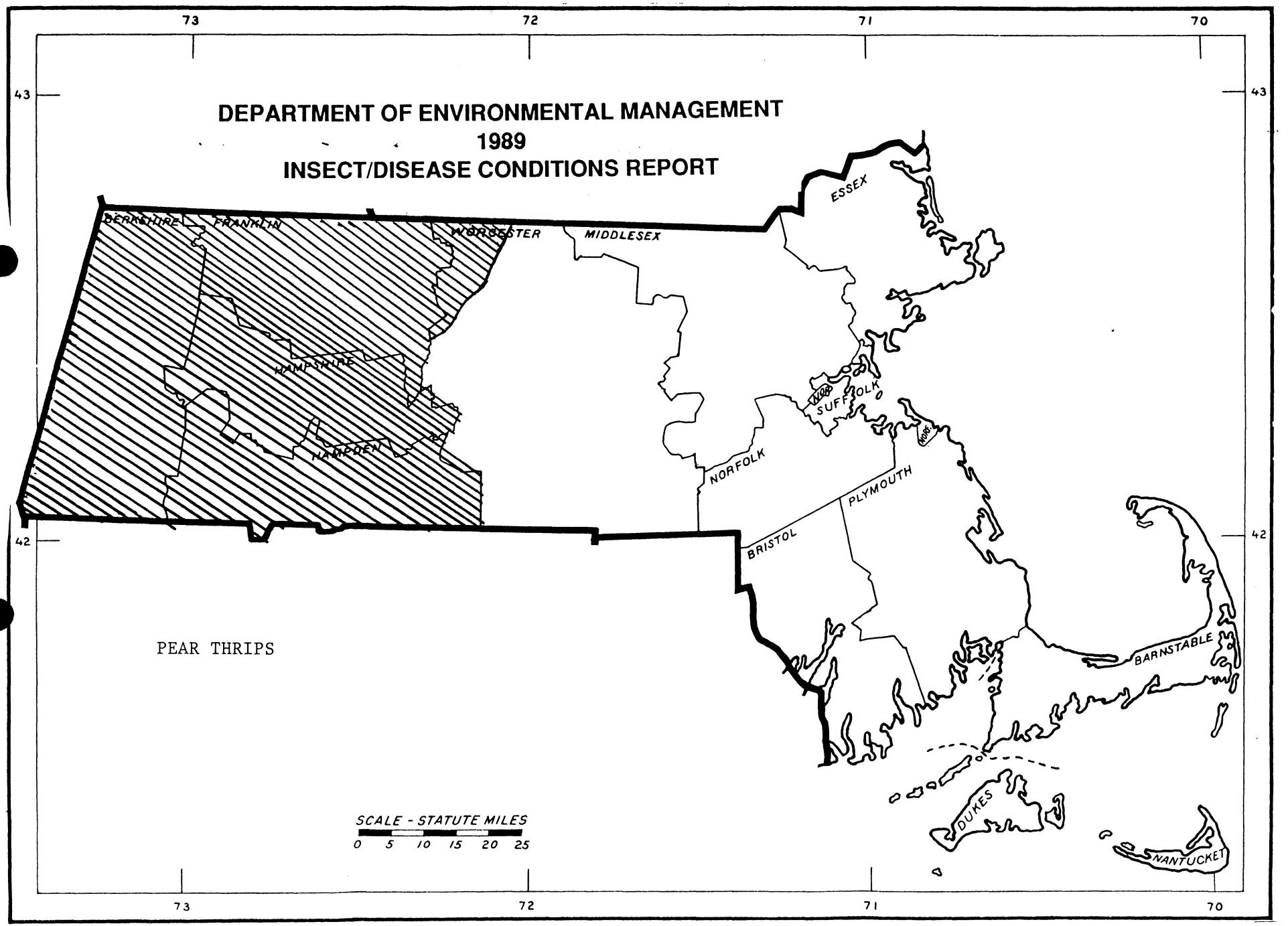
PAST TO PRESENT: Due to unseasonably warm and mild winter and spring conditions the emergence did not coincide with bud break and there was only defoliation noticeable in Northern Berkshire County.

FUTURE: Depends on emergence and weather.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None current

COMMENTS:

MASSACHUSETTS



AD - 400.19

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Oak Leaf Tier/ Oak Leaf Roller Complex

(SPECIFIC NAME): Croesia semipurpurana/Archips Semiferanus

HOST: All Oaks

PRESENT CONDITION:

AREA (TOTAL ACRES): 200,035 Acres

LOCATION: Bristol County, Norfolk County, & Worcester County

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): Light to moderate, 10-30% moderate approximately 20,000 acres.

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

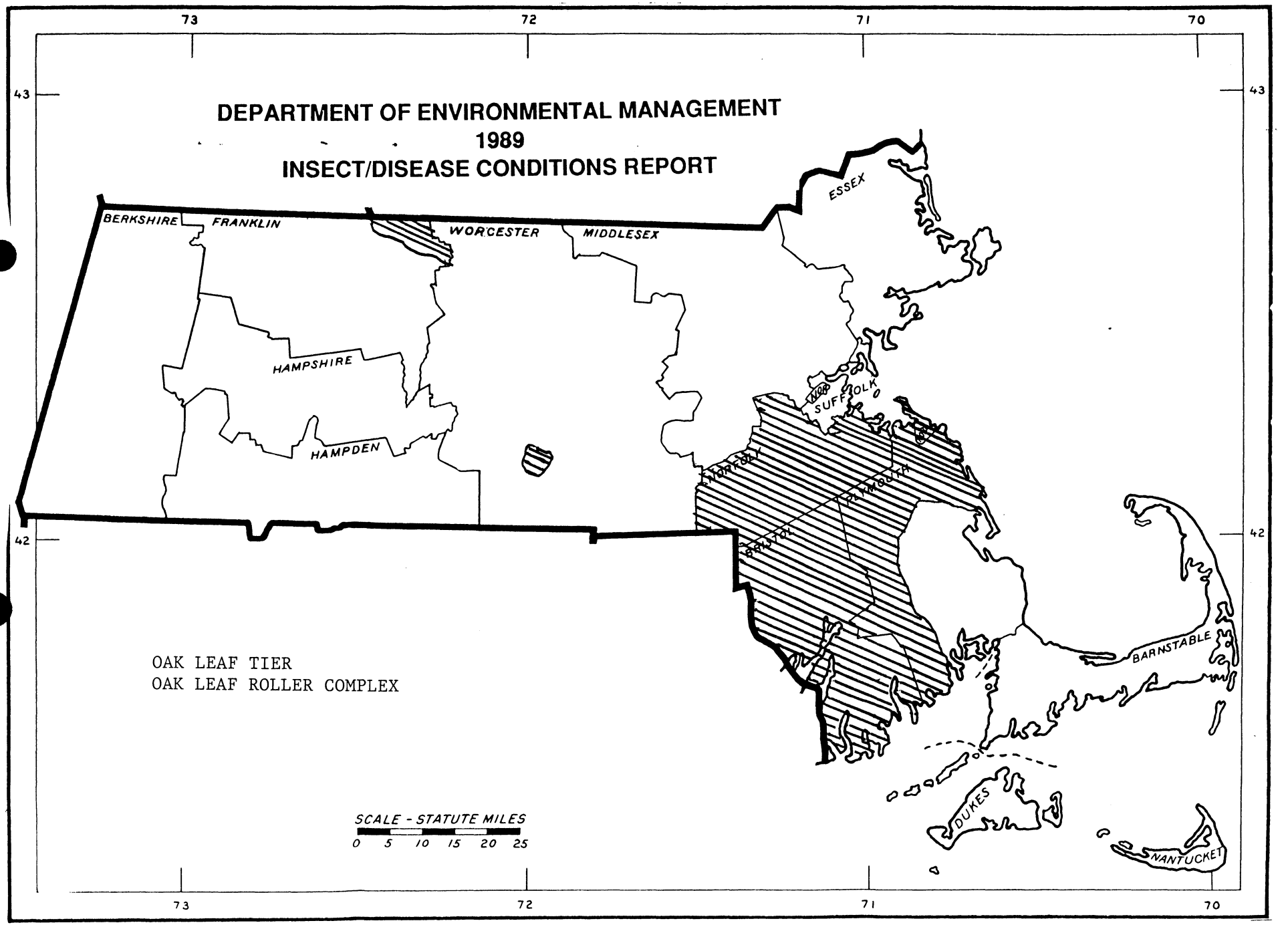
PAST TO PRESENT: Population continues to move west to east. Population increases in Norfolk and Bristol Counties.

FUTURE: Appears populations will continue to grow in Norfolk and Bristol Counties.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
A pilot Dimilin and B.t. spray project was conducted, analysis of projects being developed.

COMMENTS:

MASSACHUSETTS



1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Fall Cankerworm

(SPECIFIC NAME): Alsophila pametaria

HOST: Oak, cherry, ash, maple, hickory, beech, and yellow birch

PRESENT CONDITION:

AREA (TOTAL ACRES): 2,000

LOCATION: Falmouth, Scituate, and Nantucket

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): Heavy, 80-90% in all areas.

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

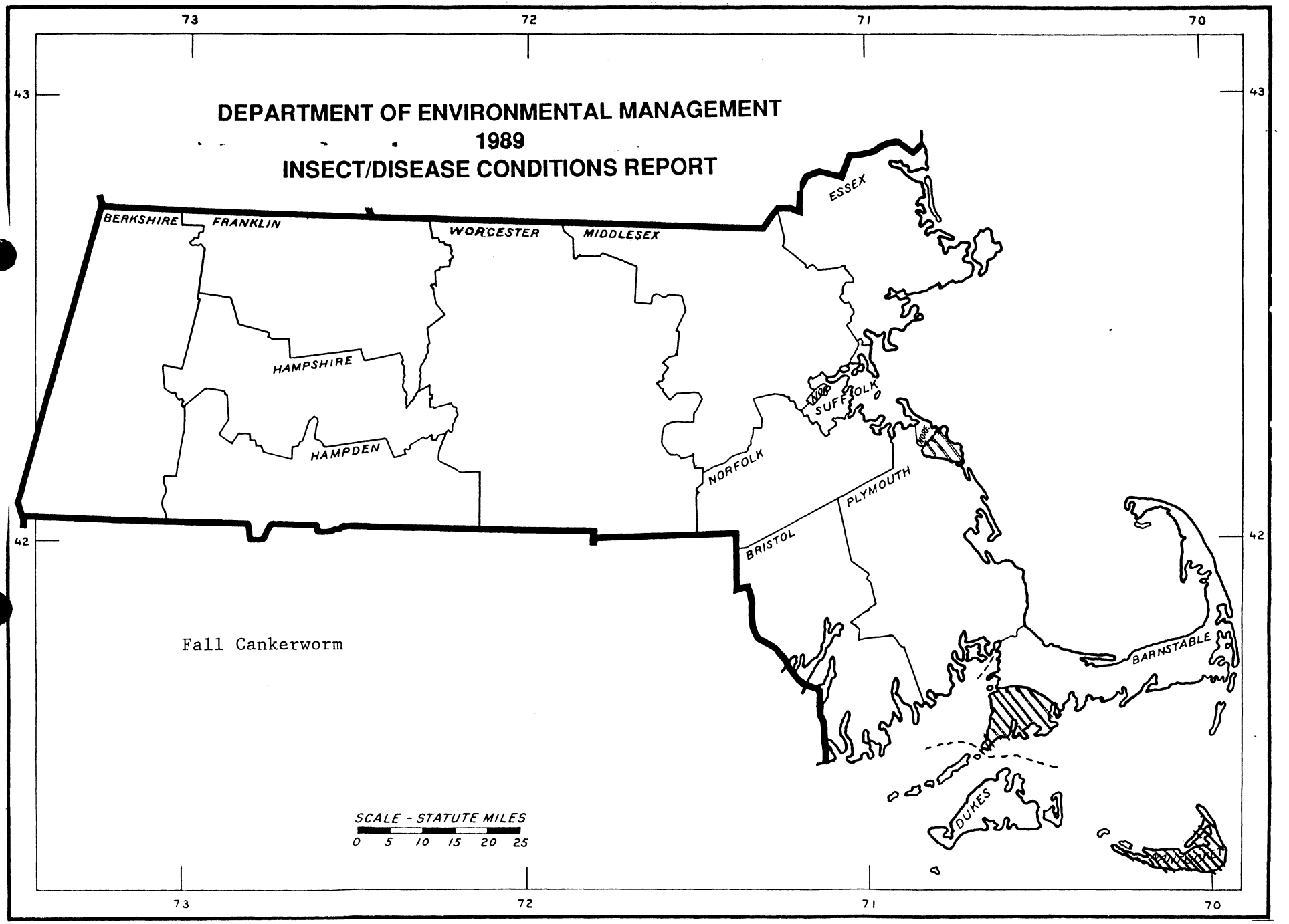
PAST TO PRESENT: Has built in these areas over the last two years but heavy defoliation has concentrated in pockets.

FUTURE: Expect increases next year.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None established yet, considering a B.t. treatment in Falmouth in 1990.

COMMENTS:

MASSACHUSETTS



1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Saddled Prominent

(SPECIFIC NAME): Heterocampa guttivitta

HOST: Maple, Beech and Birch

PRESENT CONDITION:

AREA (TOTAL ACRES): 10,000

LOCATION: Northern Berkshire County

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): 5,000 acres in heavy 70-80% defoliation, 2,000 acres 50-70%, 3000 acres 30-50% defoliation.

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

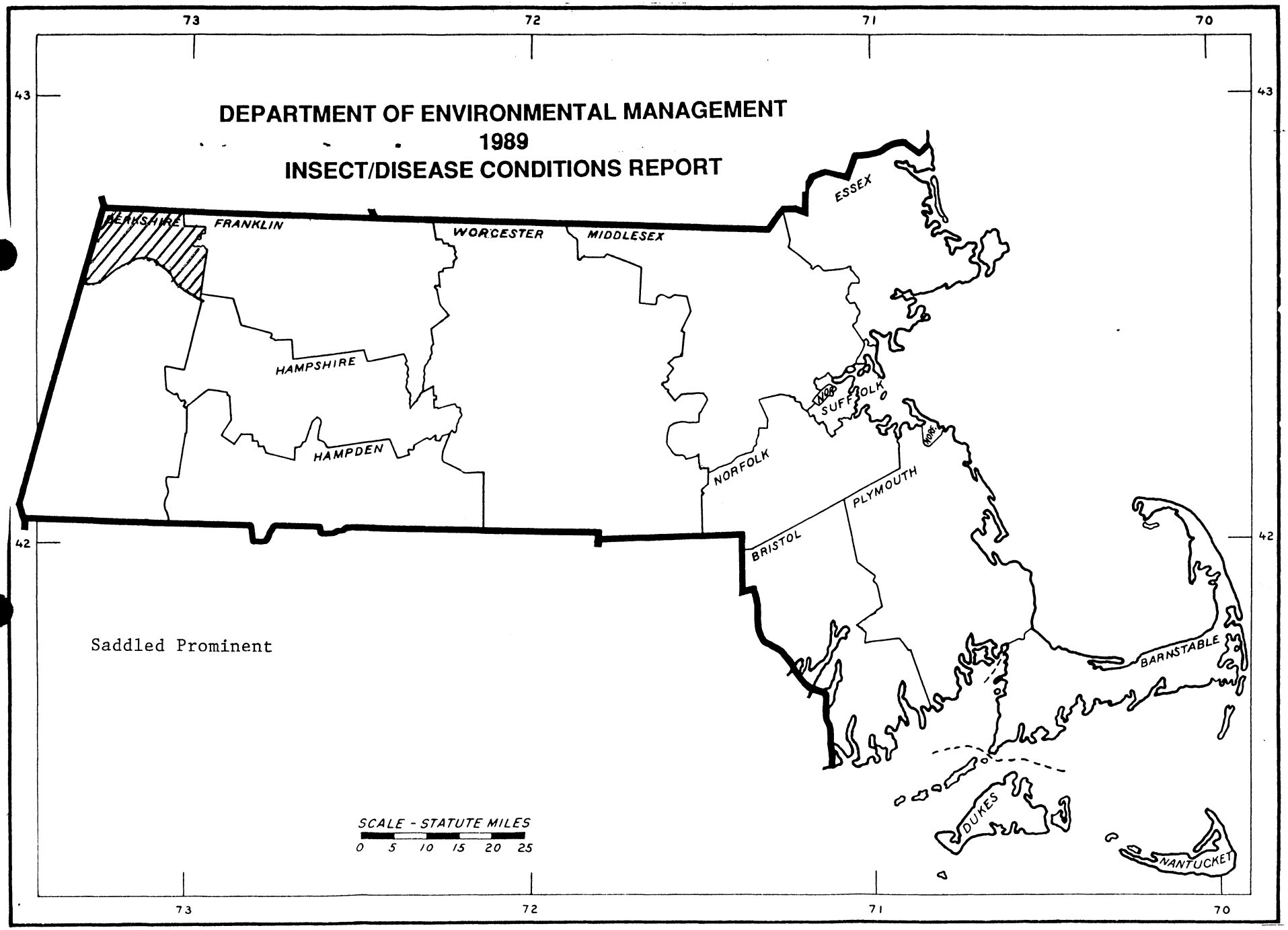
PAST TO PRESENT: This pest goes from little to no activity to outbreak conditions in one year. This is first year evident.

FUTURE: Will be monitored for an outbreak in 1990.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None as of yet.

COMMENTS: Entomophaga fungi attacked this pest also this past year.

MASSACHUSETTS



AD - 400.19

MA

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Spruce and Fir Decline

(SPECIFIC NAME):

HOST: Spruce and Fir

PRESENT CONDITION:

AREA (TOTAL ACRES): 2,500 Acres

LOCATION: Northern Berkshire County

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): 20-50% moderate all 2,500 acres

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Spruce mortality and decline increases annually

FUTURE: Continued decline of spruce on ridges

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):

None

COMMENTS:

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Pine Tip Blight

(SPECIFIC NAME): Pinea Diplodia

HOST: Red Pine

PRESENT CONDITION:

AREA (TOTAL ACRES): 2,000 acres

LOCATION: Martha's Vineyard

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): 2,000 acres 30-40% moderate

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Stable problem, limited to the Red pine stands in the Martha's Vineyard State Forest Area.

FUTURE:
No change expected.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None

COMMENTS:

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Ash Decline

(SPECIFIC NAME):

HOST: Ash

PRESENT CONDITION:

AREA (TOTAL ACRES):

LOCATION: Most serious northern Worcester and Middlesex Counties.

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): Causing increased mortality in shade trees primarily.

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Continues to become an increasingly severe problem

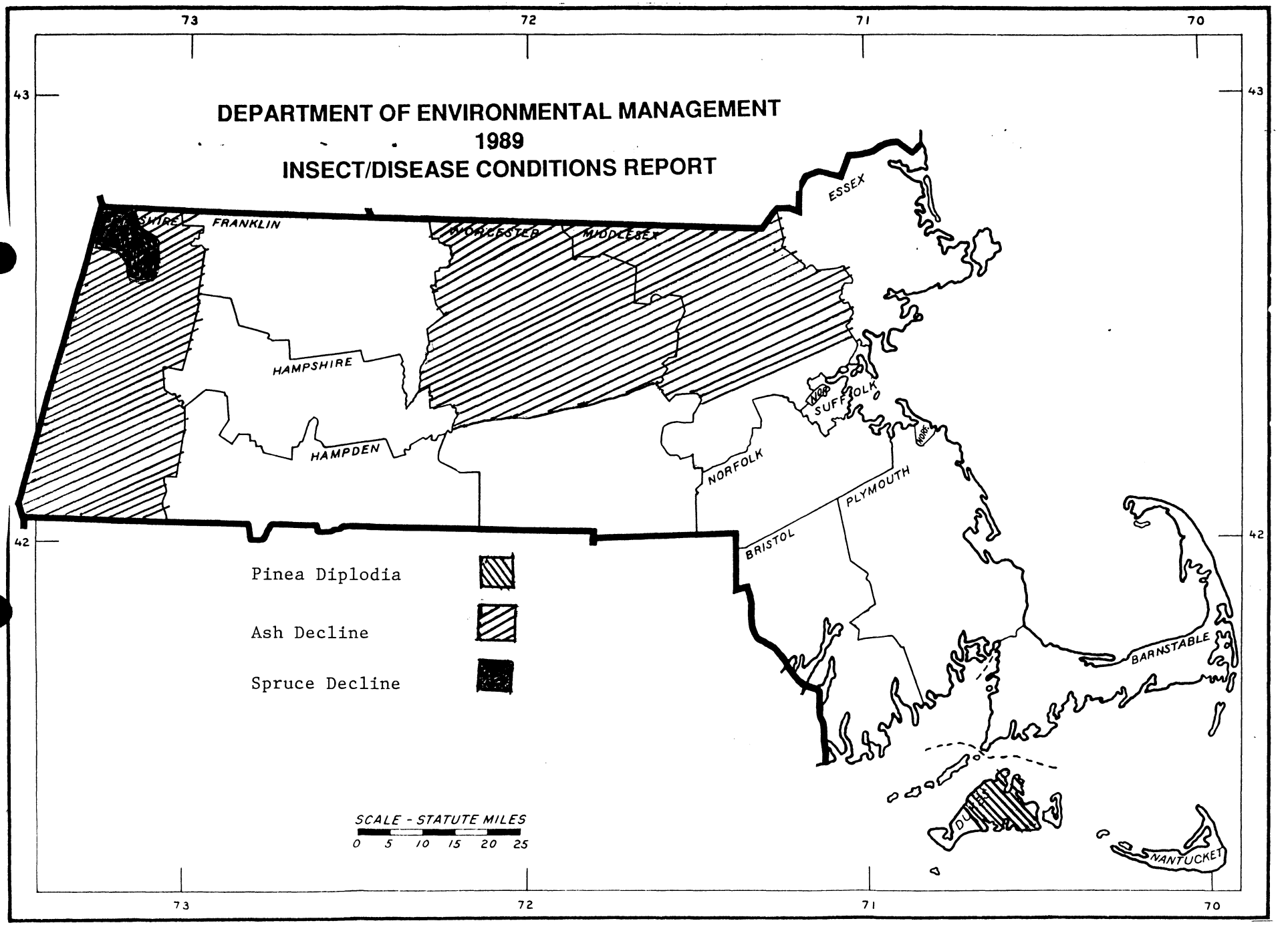
FUTURE: Increased mortality to urban and suburban shade trees

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):

None

COMMENTS:

MASSACHUSETTS



1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Beech Bark Disease

(SPECIFIC NAME):

HOST: Nectria Sp.

PRESENT CONDITION:

AREA (TOTAL ACRES): N/A

LOCATION: Berkshire County

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES):

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Continues to increase in severity to Beech stands

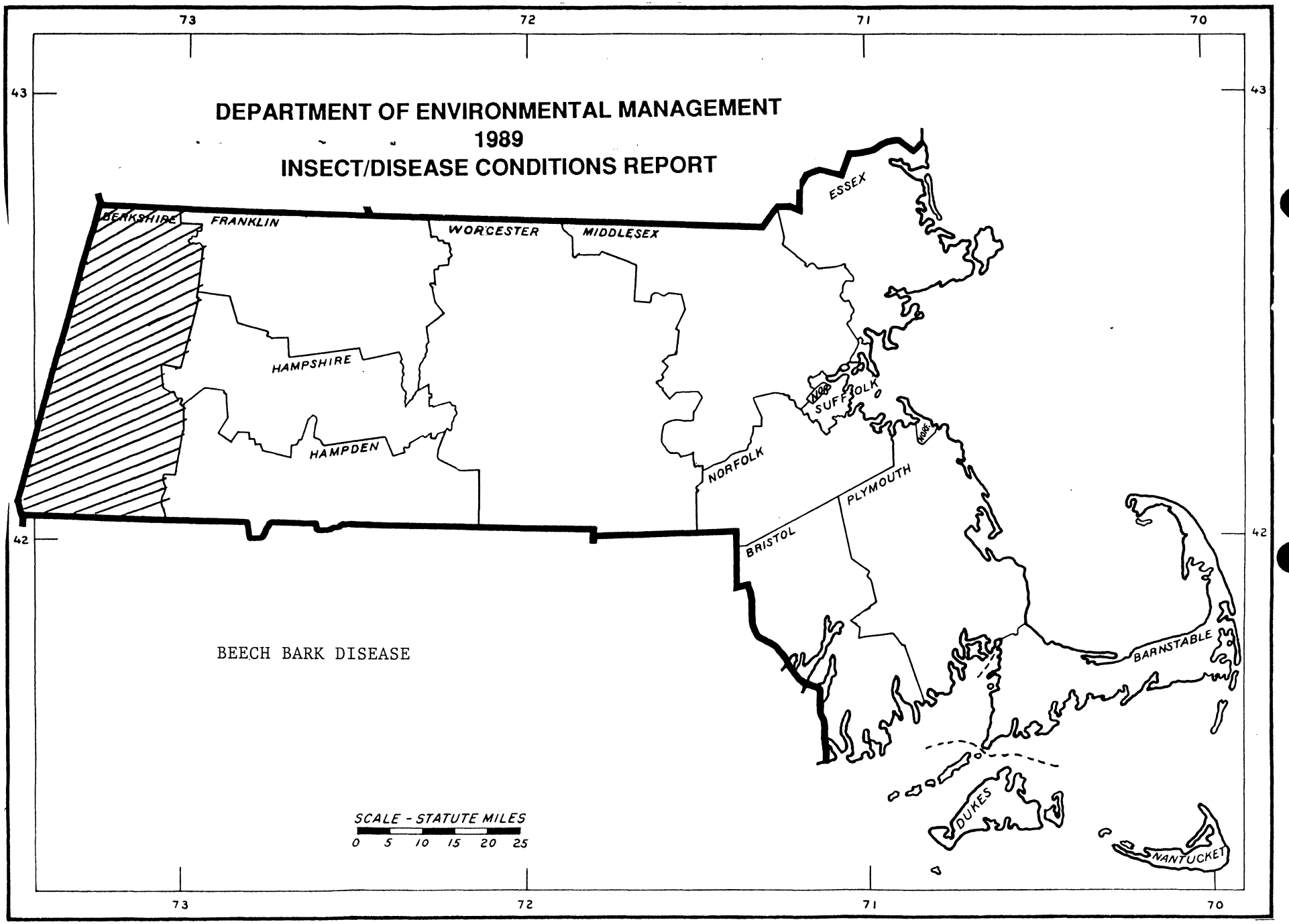
FUTURE: Increased damage with indications of mortality

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):

None

COMMENTS:

MASSACHUSETTS



1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Dogwood Antracnose

(SPECIFIC NAME): Discula Sp.

HOST: Dogwood, Maple, Ash, and Oak

PRESENT CONDITION:

AREA (TOTAL ACRES): N/A

LOCATION: Statewide

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES):

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Both a forest and shade tree disease, always present

FUTURE: Expect problem to be continuous, depends on spring weather conditions.

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):

None

COMMENTS:

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Sugar Maple Decline

(SPECIFIC NAME):

HOST: Maple trees

PRESENT CONDITION:

AREA (TOTAL ACRES): 5,000,000 acres

LOCATION: statewide

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES):

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Continues to be an increasingly severe problem to urban and suburban shade trees.

FUTURE: Increased mortality and decline

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
None

COMMENTS:

1989 PEST CONDITIONS REPORT WORKSHEET

PEST (COMMON NAME): Hemlock Wooly Adelgid

(SPECIFIC NAME): Adelges tsugae

HOST: Eastern Hemlock

PRESENT CONDITION:

AREA (TOTAL ACRES): 1 Acre

LOCATION: Springfield, MA

SEVERITY (INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES): Minor 0.1%

LOSSES (INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES):

TREND:

PAST TO PRESENT: Not present in Mass. until summer of 1989.

FUTURE: Unknown at this time

CONTROL PROJECTS (METHOD, MATERIAL, ACRES, COST, RESULTS):
Proposed Dormant oil and Malathion treatment on individually affected trees.

COMMENTS: